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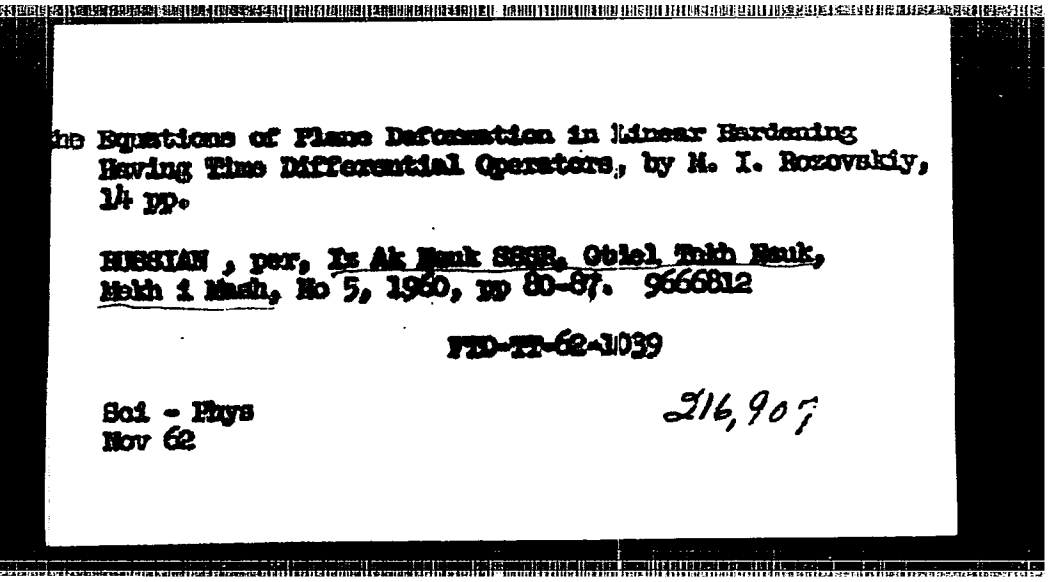

The Equations of Plane Deformation in Linear Hardening Having Time Differential Operators, by M. I. Rozovskiy, 14 pp.

RUSSIAN , per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 5, 1960, pp 80-87. 9666812

FTD-TT-62-1039

Soi - Phys
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Some New Data on the Plasticity of Metals Under Complex Loading, by V. S. Lenskii.
RUSSIAN, per. Izv AN SSSR OTN Mekh i Mash, No 5, 1960, pp 93-100.
NLL Ref: 9022.09 (4419)

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Aug 68

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Nezval, Ya.
AXIAL OSCILLATIONS OF DISCS TOGETHER WITH THE BLADES IN TURBINES (Osevye Kolebaniya Diskov Covmestno s Lopatkami v Turbinakh) tr. by D. R. H. Phillips. 2 Mar 61 [10]p. (foreign text included). Trafford Park trans. no. 2957; [DSIR LLU] M. 3226.
Order from OTS or SLA $1.10 61-27624

Trans. of [Akad[emiya] Nauk SSSR. Otd[elenie] Tekh[nicheskikh] Nauk. Izv[estiya], Mekh[anika] i Mash[inostroenie] 1960, no. 5, p. 118-121.

DESCRIPTORS: *Steam turbines, *Disks, *Steam turbine blades, Oscillation.

A theoretical determination is made of the natural frequencies of an elastic turbine disc with blades. (Machinery--Engines, TT, v. 6, no. 11)

61-27624

I. Nezval, Ya.
II. AEI TP/T-2957
III. DSIR LLU M. 3226
IV. Associated Electrical Industries, Ltd. (Gt. Brit.)

188730

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Teplov, Yu. A.
SIMULTANEOUS FLOW OF OIL AND BOTTOM WATER TO A WELL. [1961] 6p.
Order from ATS $10.20 ATS-90N50R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya]: Mekh[anika] i Mashinostroenie, 1960, no. 5, p. 197-200.

DESCRIPTORS: *Fluid flow, Oils, Water.

(Mechanics--Hydrodynamics, TT, v. 6, no. 8)

61-25210

I. Teplov, Yu. A.
II. ATS-90N50R
III. Associated Technical Services, Inc., East Orange, N. J.

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Kim, V. Yu.
AN APPROXIMATE METHOD OF COMPUTING THE FLOW UNDER ELASTIC DRIVE WITH VARIABLE PRESSURE DIFFERENTIAL. [1961] 6p.
Order from ATS $9.00 ATS-29N50R

Trans. of Akad[emiya] Nauk SSSR. Otdel[eniye] Tekh[nicheskikh] Nauk. Izvest[iya] Mekh[anika] i Mashinostroyeniye, 1960, no. 5, p. 200-203.

DESCRIPTORS: Numerical analysis, *Differentials, Pressure, Elasticity, Mechanical drives, Automatic transmissions.

(Machinery--Machine Parts, TT, v. 6, no. 3)

61-22617

I. Kim, V. Yu.
II. ATS-29N50R
III. Associated Technical Services, Inc., East Orange, N. J.

ATS-RJ-3435

Office of Technical Services

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On the Influence of Viscosity on the Flow Around a Wing, by V. V. Golubev,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1960, pp 3-14.

*NASA

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Oct 61

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Axially Symmetric Passing of a Vortex Flow,
by O. N. Ovchinnikov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk Mekh i Mash, No 6, 1960, pp 19-23.

NASA TT F-8136

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6 Mar 62

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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1960, pp 24-37.
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Sci - Aero

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On the Stability of Laminar Motion of a Fluid Containing a Heavy Admixture, by Yu. P. Gupalo, 14 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Tekh Nauk, Mekh i Mashinostroy, No 6, 1960, 9673052

pp- 2246.

FTD-TT-61-112

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Zheltov, Yu. P.
THE CREATION OF IRREVERSIBLE FRACTURES IN ROCK STRATA. [1961] 7p.
Order from ATS $11.75 ATS-17N51R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya]. Mekh[anika] i Mashinostroenie, 1960, no. 6, p. 52-56.

DESCRIPTORS: *Rock, Fracture (Mechanics).

(Engineering, TT, v. 6, no. 8)

61-25212

I Zheltov, Yu. P.
II ATS-17N51R
III Associated Technical Services, Inc., East Orange, N. J.

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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mashinostroy, No 6, 1960, pp 57-62. 9672816

FTD-TT-61-129

Sci - Engr

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Stability of a Spherical Shell Under Finite Deflections and Asymmetric Strain, by E. I. Grigolyuk, 7 pp. RUSSIAN, per, Izvestiya Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1960, pp 68-73. CIA/FDD X-5457

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Bending of Nonlinearly Elastic Three-Ply Plates, by S. A. Ambartsumyan, 9 pp.

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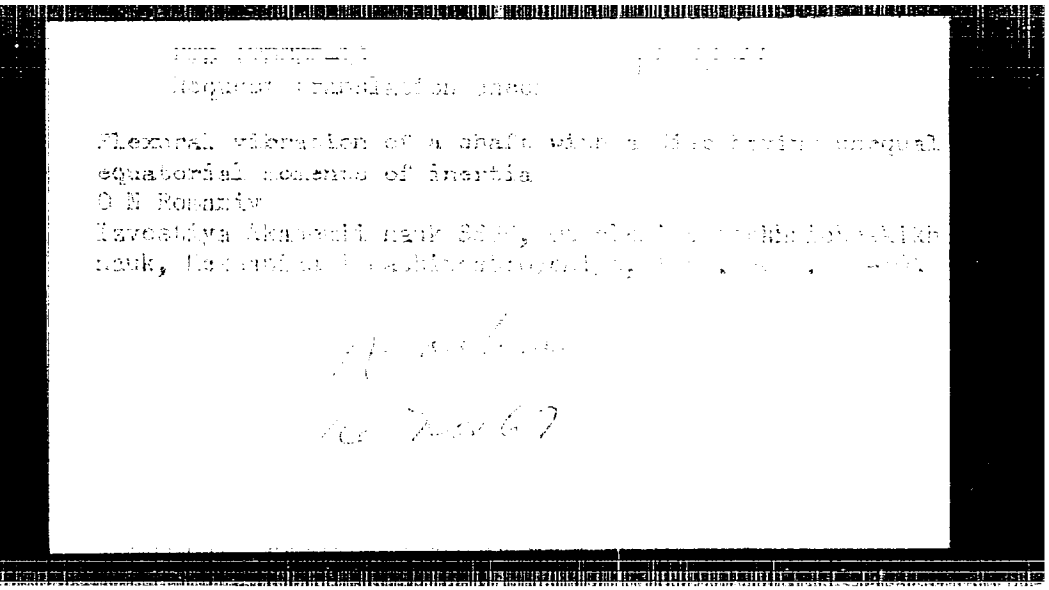

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PP 109-111.

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Investigation of Wall Surface Temperature
Behind a Moving Shock Wave, by
M. V. Volodina, et al.
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Nauk Mekham i Mashinostr, No 6, 1960,
pp 112-116.
NASA TT F-10,219

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5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
MeKh i Mash, No 6, 1960, pp 117-120.

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Sci - Aerospace

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Comments on the Creep of Steel EI 257
Under a Complex Stressed Stated., by
V. S. Namestnikov, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
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1960, pp 137-138. 9673098

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Influence of the Position of an Elliptical Hole on Stress Concentraion in a Stretched Orthopropic Plate, by S. G. Lekhnitskiy, V. V. Soldatov. 10 pp. RUSSIAN, per. Izv OTN Mekhanika i Mashinistroyeniye, No 1, 1961, pp 3-8.
AIR/FTD/HT-23-653-69

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Ex
Calculation of Critical Velocity of Rolling ofa Pneumatic Tire, by V. L. Biderman, B. I. Bukhin,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1961, pp 52-57.

*ERDL/Ft Belvoir

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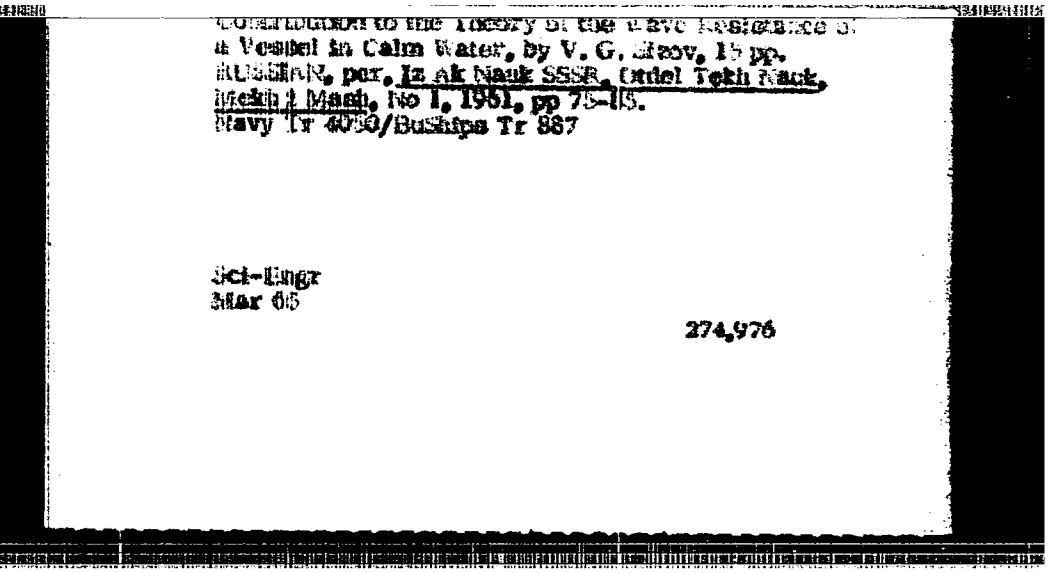

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HEAT TRANSFER AT THE NOSE OF A BODY WASHED BY A RADIATING MEDIUM, BY A. N. RUMYNSKIY, 12 PP.

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FTD-TT-62-115

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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk - Mekh i Mash, No 4, 1961, pp 127-130.

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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk - Mekh i Mash, No 1, 1961, pp 131-134.

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T-1358

Sci - Phys
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Hypersonic Flow Around Thin Blunted Bodies,
by M. D. Ladyzhevskiy, 6 pp.

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RUSSIAN, per, Izvestiya Akad Nauk SSSR, Otdel Tekh Nauk, Mekhan i Mashinostroyeniye, Nr 1, 1961, pp 153-154

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P100081268-V
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STRESSES IN AN ANISOTROPIC PLATE WITH TWO DIFFERENT HOLES (O Napryazhennom Sostoyanii Anizotropnoi Plastinki s Dvumya Neodinakovymi Otverstiyami) L. Meyer, tr. Jan 62 [6p] 5refs S. M. R. E. Trans. no. 4651; [DSIR] NLL M. 3678. Order from OTS, SLA, or ETC $1.10 TT-64-13273

Trans. of Akad[emiya] Nauk SSSR. O[tdelenie] T[ekhnicheskikh] N[auk]. Izv[estiya] Mekh[anika] i Mashinostr[oenie] 1961, no. 1, p. 175-177.

(Mechanics, TT, v. 12, no. 2)

TT-64-13273

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II. SMRE-Trans-4651
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RUSSIAN, per, Izvestiya, Akademiya Nauk SSSR, Mekhanika i Mashinostroenie, No 2, 1961, pp 17-23.
SIA TT-66-61663

TLL 9022.09B

333, 558

Sci
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M. Z. LITVIN-SEDOY, 13 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASH, NO 2, [illegible] 1961, PP 55-60.
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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1961, pp 61-69.
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Sci - Engr
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RUSSIAN, per, Iz Ak Nauk USSR, Otdel Tekh Nauk Mekh i Mashinostroy, No 2, 1961, pp 70-77. 9672802

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Sci - Math; Phys

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RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Mekh i Mash, No 2, 1961, pp 78-88.

CIA/FDD XX-1039
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Telenin, G. F. and Tinyakov, G. P.
UNSTEADY SUPERSONIC FLOW OVER A CONE WITH A BLUNTED TIP (Nestatsionarnoe Sverkhzvukovoe Obtekanie Konusa s Okruglenmoi Vershinoi) tr. by John W. Brook and V. Michael Fick. Dec 62 [27]p. 2 refs. Grumman Research dept. Trans. TR-24; AD-294 335.
Order from OTS or SLA $2.60 63-23477

Trans. of Akademiya Nauk SSSR. O[tdelenie] T[ekhnicheskaya] N[auk]. Izvestiya: Mekhanika i Mashinostroenie, 1961, no. 2 [p. 97-105].

DESCRIPTORS: Supersonic flow, Conical bodies, *Blunt, bodies, Oscillation, Moments, Equations, Pressure, Drag, Supersonics.

Equations are derived for determing the flow characteristics for blunted tip cones in an unsteady supersonic flow. Included are equations for the aerodynamic moments acting on an oscillating body in supersonic flow.

63-23477

I. Telenin, G. F.
II. Tinyakov, G. P.
III. GWT TR-24
IV. Grumman Aircraft Engineering Corp., Bethpage, N.Y.
V. AD-294 335

(Mechanics--Aerodynamics, TT, v. 10, no. 9)

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Classification of Flows in Air Shock Tubes, by G. M. [redacted] Arutyunyan, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1961, pp 106-111. 9683265

FTD-TT-63-309

NLL/RTS 2231

Sci-Phys
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Radial Flow of an Electroconductive Gas in a Moving Magnetic Field, by Ye. I. Yantovskiy, 5 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 2, 1961, pp 114-115. 9693931 FTD-TT-65-1659

Sci - Engr
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THE EFFECT OF A MAGNETIC FIELD ON THE FLOW OF A CONDUCTING GAS IN A PLANE TUBE IN THE PRESENCE OF HEAT TRANSFER THROUTH THE WALLS, BY E. P. ZIMIN, 6 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASH, NO 2, 1961, PP 117-119. 9665786

FTD-TT-62-333

SCI - PHYS
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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820066-3

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BOUNDARY LAYER ON A PLATE TAKING INTO ACCOUNT NON-EQUILIBRIUM DISSOCIATION, BY V. P. STULOV, 13 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASH, NO 3, 1961, PP 5-12. 9678213

FTD-TT-62-799

SCI - ENGR
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NONEQUILIBRIUM DISSOCIATING-AIR CURRENTS CLOSE TO EQUILIBRIUM, BY L. M. PAVLOVA, 9 PP.

RUSSINN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASH, NO 3, 1961, PP 13-17. 9678213

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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1961, pp 40-54. 9668621

FTD-TT-63-222

Sci-Phys
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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1961, pp 55-57. 9668621

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Mekh i Mash, No 3, 1961, pp 106-111.

*FTD-TT-63-309

Sci - Engr

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Vibrations of Twisted Rods, by B. F. Shorr.

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CEGB 3002

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Bending of Thin-Walled Columns Under Large Elastic Displacements, by E. L. Aksel'rad, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 3, 1961, pp 124-132.

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Mar 63
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THE EFFECT OF PLASTIC, TENSILE PRESTRAIN
ON THE FITIGUE STRENGTH OF STEEL, BY
M. YA. GALPERIN, ET AL.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK
MEKH MASH, NO 3, 1961, PP 161, 162.

NLL M.3488

SCI - ENGR

JUN 62 199,095

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CR-39/64
(BD #6-64)

Boris Sergeyevich Stechkin. (SF-3041)

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
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*JPRS

Sci - Misc
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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820066-3

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Homogeneous Plasma Turbulence in a Strong Magnetic Field, by M. M. Prudnikov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mashinostroy, No 4, 1961, pp 10-13. 9664308

FTD-TT-61-93

Sci - Phys

19 Mar 62

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820066-3

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EFFECT OF RADIAL FLOW BETWEEN THE ROTATING DISC AND HOUSING ON THEIR RESISTANCE AND HEAT TRANSFER, BY L. A. DORFMAN, 13 PP.

RUSSIAN, PER, IZ AK NAUK SSSR, OTDEL TEKH NAUK, MEKH I MASH, NO 4, 1961, [illegible]
PP 26-32. 9678384

FTD-TT-62-1038

SCI - ENGR
11 OCT 62

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Experimental Investigation of Free Oscillations of a Fluid in a Vessel, by G. Mikishev, N. Dorozhkin.
RUSSIAN, per, Izv Ak Nauk SSSR, Mekh Mash, No 4, 1961, pp 48-53.
CSIRO No 9784

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Experimental Investigation of Free Oscillations of Liquids in Containers, by G. N. Mikishev, N. Ya. Dorozhkin, 6 p.
RUSSIAN, per, Izvestiya Akademii Nauk, OTN Mekhanika i Mashinostroenie, No 4, 1961, pp 48-53. 9698601
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Creep in a Concrete Block at Elevated Temperatures, by M. A. Zadoyan.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 4, 1961, pp 130-135.

NLL M. 3855

Sci - Engr

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Flow of Electrically Conducting Gas in a Channel With a Traveling Magnetic Field, by E. P. Zimin, Ye. I. Yantovskiy, 8 pp.

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Sci - Phys

15 Feb 62

182,602

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The Energetic Parameter and Scale Effect in Cavitation Erosion, by K. K. Shal'nev. 15 pp. RUSSIAN, per, Izvestiya AN SSSR. Mekhanika i Mashinostroyeniye, No 5, 1961, pp 3-10.
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Effect of Joule Heating on Heat Transmission at the Critical Point, by V. A. Polyanskiy, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 5, 1961, pp 11-15.
9668610

FTD-TT-63-91

Sci-Phys
May 63

230, 802

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820066-3

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Determining the Base Pressure and Base Temperature on the Sudden Expansion of a Sonic or Supersonic Flow, by R. K. Tagirov, 13 pp.

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 5, 1961, pp 30-37. 9668610

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Stability of a Cylindrical Shell Under the Effect of a Moving Load, by V. I. Priselkin.

RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Mekh i Mash, No 5, 1961, pp 133, 134.

*FTD-MT-62-26

Sci - Machine Translation
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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300820066-3

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Alikhashkin, Ya. I.
NUMERICAL INTEGRATION OF THE EQUATION MODELING THE MOVEMENT OF A TWO-FLUID INTERFACE IN A POROUS MEDIUM. [1962] 6p.
Order from ATS $7.75 ATS-96P59 R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest [iya]: Mekh[anika] i Mashinostr[oenie] 1961, no. 5, p. 159-162.

DESCRIPTORS: *Fluid flow, Numerical analysis, Differential equations, Integration.

(Mechanics--Hydrodynamics, TT, v. 8, no. 2)

62-17280

I. Alikhashkin, Ya. I.
II. ATS-96P59R
III. Associated Technical Seric Services, Inc., East Orange, N. J.

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Gorbunov, A. T. and Nikolaevskii, V. N.
STEADY-STATE FLOW OF FLUID INTO WELLS UNDER VOLUMETRIC CONTROL CONDITIONS. [1962] 7p.
Order from ATS $11.45 ATS-5 dP60R

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie] Tekh[nicheskikh] Nauk. Izvest[iya]: Mekh[anika] i Mashinostr[oenie] 1961, no. 5, p. 163-167.

DESCRIPTORS: Petroleum, Sources, *Fluid flow, Volume, Control.

(Engineering--Chemical, IT, v. 8, no. 4)

62-17744

I. Gorbunov, A. T.
II. Nikolaevskii, V. N.
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Kim, V. Yu.
AN APPROXIMATE SOLUTION FOR THE PROBLEM OF NONSTEADY-STATE FLOW OF FLUID TO A WELL WITH A GIVEN BOTTOM-HOLE PRESSURE. [1963] 7p.
Order from ATS $8.00 ATS-00Q67R

Trans. of Akad[emiya] Nauk SSSR. Otd[elenie] Tekhn[icheskikh] Nauk. Izv[estiya:] Mekhan[ika] i Mashinostr[oenie] 1961, no. 5, p. 174-177.

DESCRIPTORS: Well drilling, Boreholes, *Fluid flow, Pressure

(Earth Sciences--Geology, TT, v. 9, no. 9)

I. Kim, V. Yu.
II. ATS-00Q67R
III. Associated Technical Services, Inc., East Orange, N. J.

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Solution of Equations of Boundary Layer at Critical Point for Ternary Mixture, by A. B. Karasev, 16 pp.

RUSSIAN, per, Iz Ada Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, Nr. 6, 1961, pp 3-10.
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Heat Transfer in Laminary Boundary Layer on a Plate With Consideration of Chemical Non-equilibrium, by V. P. Stulov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1961, pp 11-14. 9683159

FTD-TT-62-1752

Sci-Phys
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Calculation of Axially Symmetric Supersonic Annular Nozzles, by U. G. Pirumov, V. A. Rubtsov, 22 pp.

RUSSIAN, per, Iz Akad Nauk SSSR, (Otdel Tekh Nauk, Mekh i Mash, Nr. 6, 1961, pp 15-15.
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R-5770-D
3 Sept 65

Flow of Humid Air in Nozzles of Aerodynamic Tubes
By: A. S. Danilov
From: AKAD NAUK SSSR Izv., OTN MAKH I MASH #6, 1961 (14pp)
pp 24-37

Russian - est for wds:

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Concerning Riemann Waves, by N. V. Saltenov, V. S. Tkalich, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 6, 1961, pp 26-32. 9677218

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Sci - Phys
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The Flow of Gas Near the Stag[illegible] Blunt Body With a Finite Rate of Excitation of Vibrational Degrees of Freedom, by I. N. Murzinov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Mekh i Mash, No 6, 1961, pp 33-36. 9667347

FTD-TT-62-1313

Sci - Chem, Engr
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Use of the Small Perturbations Method to Calculate Nonadiabatic Flow Around a Flat Plate Using a Supersonic Flow of Ideal Gas, by I. F. Shakhnov, 8 pp.

RUSSIAN, per; MzKh i Mash, No 6, 1961, pp 37-41. 9683154

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Laminar Boundary Layers in a Multi-Component Mixture of Gases, by N. A. Anfimov. RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mashinostr, No 1, 1962, pp 25-31. NASA TT F-10,038

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Calculating a Three-Dimensional Laminary Boundary Layer on Spreading Lines, by V. S. Avduyevskiy, 14 pp.

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FTD-TT-62-1723

Sci-Engr
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Investigation of Heat-Transfer in the Case of a Cylinder in a Stream of Expanded Gas, by M. N. Izakov, S. P. Perov, 21 pp.

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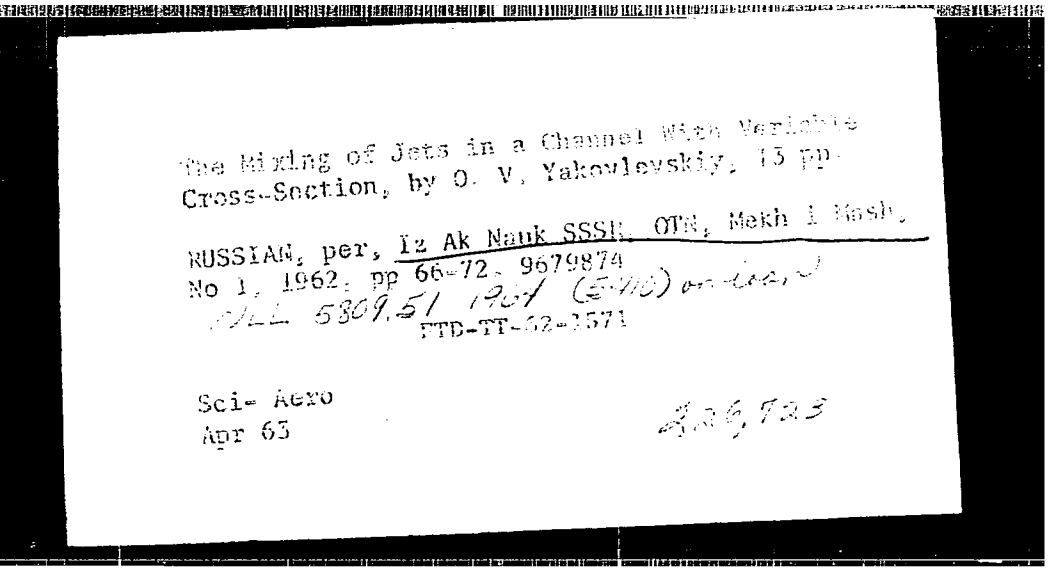

The Mixing of Jets in a Channel With Variable Cross-Section, by O. V. Yakovlevskiy, 13 pp.

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FTD-TT-62-1571

Sci- Aero
Apr 63

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Analysis of Bending of a Sector Plate of Variable Thickness, Clamped Along a Portion of Its Arcuate Edge, Utilizing a High-Speed Computer, by B. Ya. Kantor, A. P. Filippov. 9 pp RUSSIAN, per, AN SSSR. Izv Mekh i Mash, No 1, 1962, pp 121-124.
AIR/FID/MT-24-424-69

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Use of a Statistical Method to Analyze Experimental Data on Shell Stability, by B. P. Makarov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1962, pp 157-158.

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Jul 62

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On the Determination of the Probability of Shell Buckling, by V. M. Goncharenko, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1962, pp 159-160.

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On the Influence of Random Gyro Drifts on the Behavior of the Simplest Inertial Navigation System, by EX I. B. Chelpanov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1962, pp 164-166.

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Sci - Phys
May 62
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HQ FTD (TDBDR-1) BT67-17-58T

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1. Cavitation in shield slots, Shal'nev, K. K., 57-65
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